DOCUMENT RESUME

ED 411 152 SE 060 542

AUTHOR Dougan, David
TITLE 40 Low-Waste, Low-Risk Chemistry Labs.
ISBN ISBN-0-8251-2878-1
PUB DATE 1997-00-00
NOTE 251p.
AVAILABLE FROM J. Weston Walch, Publisher, P.O. Box 658, Portland, ME 04104-0658.
PUB TYPE Guides - Classroom - Teacher (052)
EDRS PRICE Document Not Available from EDRS.
DESCRIPTORS Chemical Analysis; Chemical Reactions; *Chemistry; Educational Strategies; *Laboratory Experiments; *Laboratory Procedures; *Science Activities; *Scientific Methodology; Secondary Education; Spectroscopy; Teaching Guides

ABSTRACT

This resource book contains 40 chemistry labs and provides a single solution to the problems of purchase, storage, use, and disposal of chemicals. The text is designed to be used alone or integrated with current textbooks. A mixture of microchemistry and macrochemistry is used to provide variety and reflects trends in research and industry. Most of the experiments require one class period and difficulty levels are provided for each experiment. Each of the reproducible student activity sheets is accompanied by teacher guide pages that provide time, difficulty level, grouping, materials, preparation time, background, safety, pitfalls, typical results, calculation, and disposal. Topics include relative mass, mass-mass relationships, diffusion, emission spectra, and molar volume. An extensive section on laboratory techniques is included along with master chemical and equipment lists. (DDR)

****
* Reproductions supplied by EDRS are the best that can be made *
* from the original document. *
****